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Morbidity and Mortality Weekly Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

Prepared by the COMMUNICABLE DISEASE CENTER 634-5131

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PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED AUGUST 22, 1964

ENCEPHALITIS

A total of 248 cases of **primary encephalitis** was reported for the week ended August 22. This brings to 1,458 the cumulative total thus far in 1964. A comparison of this year's sum with that of comparable periods for previous years is not possible because reporting of primary encephalitis, as a separate category, did not begin until January 1, 1964.

Of the cases reported during the past week, 212 were from Texas; the remainder were scattered throughout the country. In Texas, 2 outbreaks are occurring; one is in Houston, the other in the South Plains area of Hale, Lubbock, and Castro Counties (See Epidemiologic Reports, page 290). In Houston, St. Louis Encephalitis virus infection has been identified serologically in 8 cases.

Small, discrete, apparently unrelated outbreaks have occurred in Florida, Illinois, and Arizona during recent weeks (see page 292). Since it is not uncommon for viral encephalitis to be reported at this season in these regions it is too early to determine the significance of these cases as reflecting a more widespread problem.

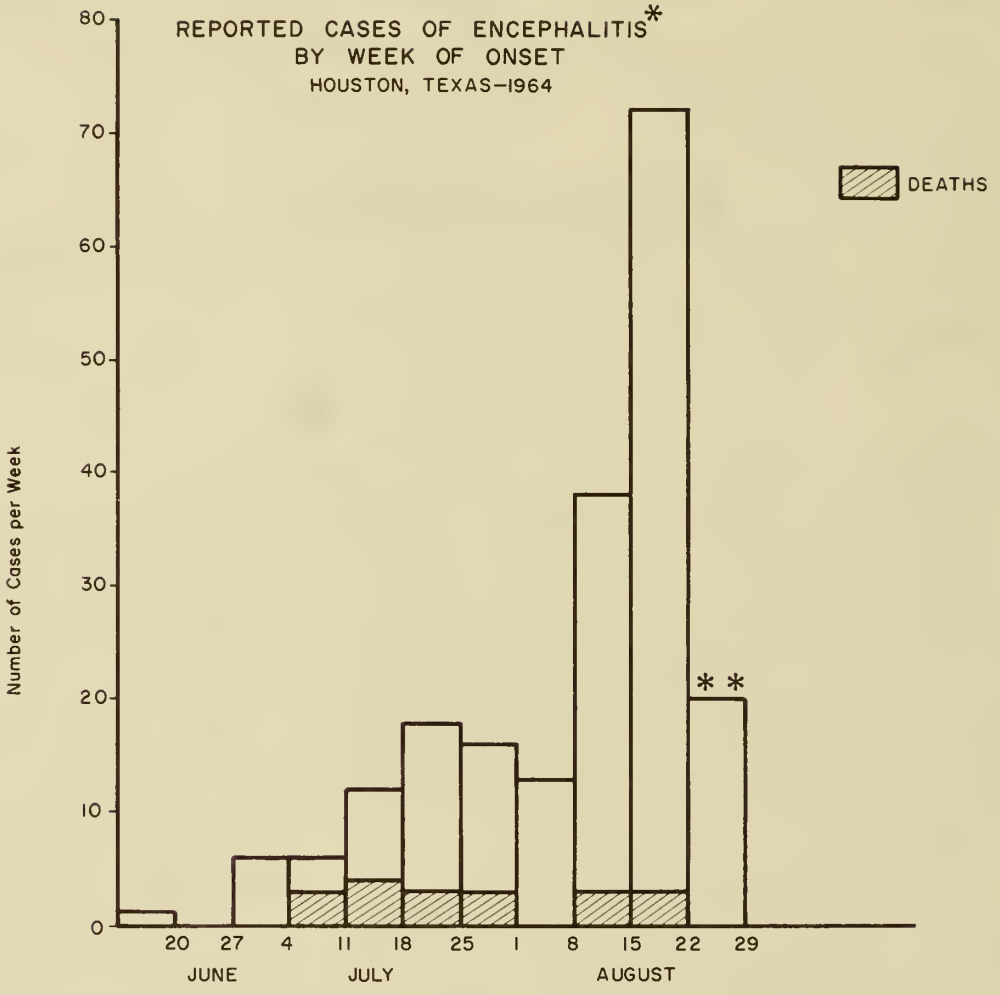
A summary of **post-infectious encephalitis** for July is presented on page 293.

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

Disease	34th Week Ended		Median	Cumulative, First 34 Weeks		
	August 22, 1964	August 24, 1963	1959 - 1963	1964	1963	Median 1959 - 1963
Aseptic meningitis	63	57	---	1,176	1,018	---
Brucellosis	14	10	10	285	243	402
Diphtheria	9	3	9	174	156	366
Encephalitis, primary infectious	248	34	---	1,458	1,027	---
Encephalitis, post-infectious	8		---	664		---
Hepatitis, infectious including serum hepatitis	641	685	685	26,009	29,039	29,041
Measles	828	996	1,055	432,587	356,342	384,757
Meningococcal infections	27	23	24	1,825	1,688	1,578
Poliomyelitis, Total	4	22	77	70	204	559
Paralytic	3	19	60	58	174	382
Nonparalytic	1	3	---	9	19	---
Unspecified	-	-	---	3	11	---
Streptococcal Sore Throat and Scarlet fever	4,147	2,831	---	283,486	241,819	---
Tetanus	12	4	---	177	157	---
Tularemia	6	1	---	223	186	---
Typhoid fever	8	13	23	263	301	480
Rabies in Animals	98	59	58	3,062	2,568	2,563

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: Mass-1	3	Psittacosis: Mass-1, Calif-2	28
Botulism:	11	Rabies in Man:	-
Leptospirosis: Ark-1, Iowa-1, Tenn-1	29	Smallpox:	-
Malaria: NJ-1, NC-1	57	Typhus-	
Plague:	-	Murine: Texas-2	19
		Rky Mt. Spotted: NJ-1, Md-1, Ohio-1, Ky-1, SC-1, Ga-3, Tenn-2, Texas-1	156



* 202 Coses with known dote of onset
** Through August 25, 1964

EPIDEMIOLOGIC REPORTS

ENCEPHALITIS

TEXAS

Houston

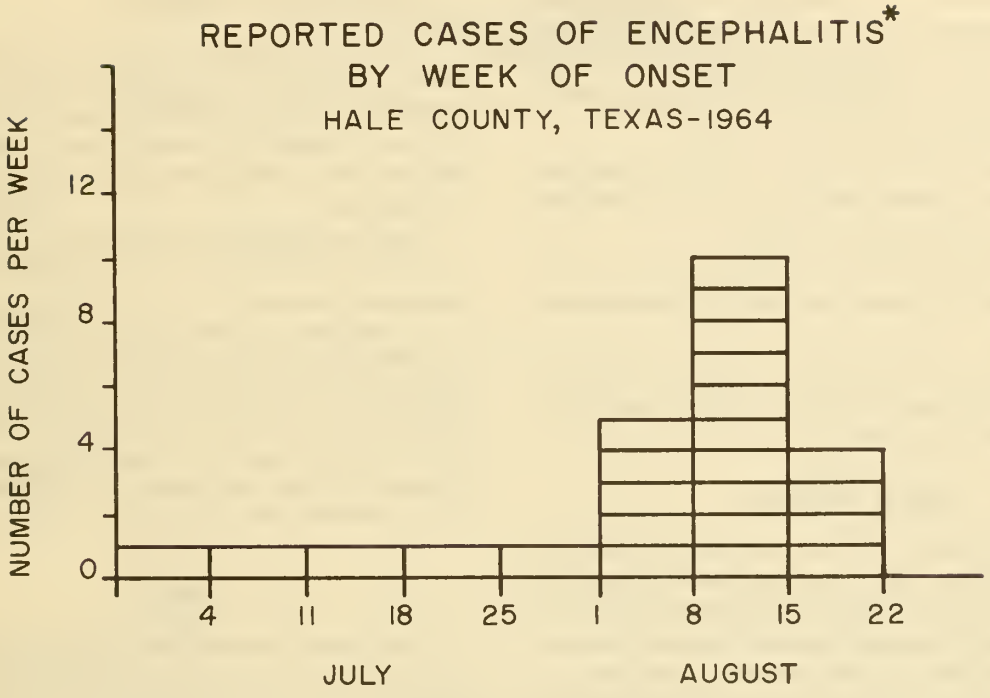
As of August 25, a total of 215 cases, including 22 deaths, was reported in Houston. The vast majority (207) of these are suspect cases; serologic identification of St. Louis encephalitis virus infection was made in 8 cases. A histogram of 202 cases with known dates of onset is shown above; fatal cases with known dates of onset are so identified. The earliest case had onset during the week ended June 20. Six cases occurred the weeks ended July 4 and 11, and 12 cases occurred the following week; since August 8, there has been a rise in the number of cases each week, with an abrupt increase to 38 cases the week ended August 15 and 72 cases the week ended August 22.

The 22 deaths constitute a 10 percent case fatality rate. With one exception, the deaths for which ages are known have occurred in persons over 50 years. The cases with earlier onsets were chiefly from a single lower socio-economic area of the city. The more recent cases represent a more diffuse pattern. Cases have been reported in all sections of Houston.

Of the 215 cases, 96 are in males, 78 in females; for 41, the sex is not yet reported.

In the 162 cases where the race has been reported, 98 were in whites and 64 in non-whites.

Approximately two-thirds of the cases are among persons over 20 years of age. The age distribution of the



*23 Cases with known date of onset.

cases and deaths are presented in the following table:

AGE SPECIFIC ATTACK RATES FOR ENCEPHALITIS
HOUSTON, TEXAS, 1964

Age Group	No. Cases	No. Deaths	Serologically Confirmed	Attack Rate/ 100,000*
0-4	20	1	1	16.5
5-9	20	0	1	18.7
10-14	15	0	2	17.8
15-19	14	0	0	23.0
20-29	24	0	0	18.3
30-39	21	0	0	14.0
40-49	17	0	0	14.5
50-59	25	5	0	29.2
60-69	23	4	1	46.4
70+	28	9	2	89.9
Unk.	8	3	1	–
	215	22	8	23.0

*1960 Census

In a survey of the mosquito population in Houston, 97 percent of the 2,000 mosquitoes trapped have been identified as *Culex quinquefasciatus*, one of the known vectors of St. Louis Encephalitis. Vector Control operations, primarily larvaciding, are in progress. Fogging operations are also being conducted.

(Reported by Charles A. Pigford, M.D., Director of Public Health, Houston, Van C. Tipton, M.D., Director, Communicable Disease Division, Texas State Department of Health, and a team from the Communicable Disease Center.)

South Plains Area

A total of 33 cases of suspect encephalitis in humans has been reported through August 25 in 3 counties in the South Plains area of Texas. Hale County reported 29, Lubbock County 3, and Castro County one. Both St. Louis and Western Encephalitis viruses have been isolated from human cases in previous years in this region; thus far, no isolations or serologic confirmations have been made in 1964.

As shown in the histogram (above), one case occurred each week in July and early August. During the week ended August 8, there were 5 cases. The total rose to 10 cases during the week ended August 15. Four cases became ill during the week ended August 22; most of the suspect cases, which do not appear in the table, became ill during this period.

AGE SPECIFIC ATTACK RATES FOR ENCEPHALITIS
HALE COUNTY, TEXAS, 1964

Age Group	No. Cases	Attack Rate/ 100,000
0-4	12	253
5-9	4	89
10-19	1	14
20-29	3	63
30-39	4	88
40-59	3	40
60+	0	0
Total	24	60

The overall attack rate thus far is 60 per 100,000. The age distribution, presented before, shows the highest attack rate to be in pre-school age children, among whom one-half of the cases have occurred. There is a rather uniform spread through the older age groups.

Approximately one-half of the recorded cases are among Mexican migrant workers (Braceros). There has been one fatality, a 2-month-old infant.

Western Encephalitis virus has been recovered in the State laboratory at Austin from pools of mosquitoes in Hale County.

(Reported by Dr. Van C. Tipton, Director, Division of Communicable Disease Control, Texas State Department of Health, and a team from CDC.)

SOUTH CAROLINA

Eastern Encephalitis virus was isolated from the brain of one horse and tentatively identified from the brain of another horse, both of which died within the last 3 weeks in the eastern half of South Carolina. Clinical cases in horses have occurred elsewhere in the State.

No human cases of suspected arboviral encephalitis have been reported.

(Reported by Dr. G. E. McDaniel, Director, Division of Disease Control, South Carolina State Board of Health.)

ARIZONA

Two Indians died of encephalitis-like illness on August 14 and 16 at the Division of Indian Health Hospital, Gallup, New Mexico. The patients, a 29-year-old female (5 months pregnant) and a 5.year-old male, resided at 2 separate areas of the Navajo Indian Reservation in northeastern Arizona. Onset dates were August 6 and 15.

(Reported by Division of Indian Health, Bureau of Medical Services, Public Health Service, and a team from the Communicable Disease Center.)

FLORIDA

Between early June and July 22, 4 serologically confirmed cases of Eastern Encephalitis occurred in 4 widely scattered counties in the central, northern and Panhandle sections of Florida. The patients were 5- and 6-year-old children, and 17- and 38-year-old males. Two of the patients died.

Eastern encephalitis virus was recovered from pools of mosquitoes collected in 2 of the areas in which these human cases occurred.

In addition, at least 80 cases of clinical Eastern Encephalitis in horses have been reported; the majority occurred in June and July. (An earlier report appeared in MMWR, Vol. 13, page 242). Confirmation by serology or viral isolation was made in 15 of the horse cases.

(Reported by Charlton Prather, M.D., Epidemiologist, Florida State Board of Health.)

ILLINOIS

Four cases of encephalitis-like illness were reported this month in children residing in 2 central Illinois communities; 3 occurred in Pekin, the fourth in Springfield.

Onset dates for the Pekin cases were August 4 for the first case and August 13 for the 2 others. One patient experienced abrupt onset of fever, convulsions and localized neurologic signs. The other 2 patients also had abrupt onsets of fever and transient convulsions; neurologic sequelae were not noted.

The patient in Springfield experienced fever, meningismus, convulsions, and localized neurologic findings including dysarthria, commencing August 16.

No cases have been reported elsewhere in the State as of August 26. Virological studies are in progress.

(Reported by Norman Rose, M.D., Chief, Bureau of Epidemiology, Illinois State Department of Public Health, Fred Long, M.D., Director of Health, Peoria County, and a team from the Communicable Disease Center.)

STAPHYLOCOCCAL FOOD POISONING – Georgia

From 2-6 hours after eating ham, 7 residents of Haralson County, Georgia, experienced vomiting and diarrhea in an outbreak of staphylococcal enterotoxin food-borne disease. All but one of the victims was a member of one family. The ham was consumed over a period of 5 days, from June 13 to 17. The mother ate the ham on 2 occasions; each time she became symptomatic.

The ham was commercially packaged. After purchase at a local grocery, it was brought to a bakery shop, where it was cooked. After cooking, the bakery owner's wife sampled a slice; she did not become ill. Then she wrapped the ham in a fresh piece of aluminum foil. The warm ham remained at the bakery for 12 hours until the family called for it.

A portion of sliced ham yielded 4,900,000,000 coagulase-positive staphylococci per gram. These organisms were not typable with the International set of bacteriophages. Physical examinations of the bakery workers failed to demonstrate skin lesions; nasal cultures were negative for staphylococci.

(Reported by Thomas W. McKinley, Associate Epidemiologist, and Dr. John E. McCroan, Chief Epidemiologist, Epidemiologic Investigations Branch, Georgia Department of Public Health.)

REPORTED CASES OF POST-INFECTIOUS ENCEPHALITIS FOR JULY
5 WEEKS ENDING 7/4, 7/11, 7/18, 7/25, 8/1

REPORTING AREA	REPORTED PRIMARY INFECTION								
	Mumps	Chickenpox	Measles	Rubella	Influenza	Herpes Simplex	Respiratory Syncitial	Vaccinia	Pertussis
NEW ENGLAND									
Rhode Island		1	1						
MIDDLE ATLANTIC									
New York Up-State	1	1	2	1		1			
Pennsylvania	1	2	2	2		1			
EAST NORTH CENTRAL									
Illinois	9			2					
WEST NORTH CENTRAL									
Iowa	1								
SOUTH ATLANTIC									
Virginia	5								
EAST SOUTH CENTRAL									
Tennessee	3				1				
WEST SOUTH CENTRAL									
Arkansas	3	1	1						
PACIFIC									
Washington	7								
Oregon	4			1	1				
California	29	4	9			2			
U.S. TOTAL	63	9	15	6	2	4			
U.S. CUMULATIVE TOTAL* through 8/1	359	51	166	31	9	8	1	1	1

*Includes revised and delayed reports. (States not reporting o case not listed)

POST-INFECTIOUS ENCEPHALITIS – JULY

A total of 99 cases of post-infectious encephalitis was reported for the 5-week period ended August 1 (see table above). This brings to 627 the cumulative total of post-infectious encephalitis cases reported for the first 7 months of 1964. (For earlier reports, see MMWR, Vol. 13, pp. 46, 102, 143, 177, 219, and 266).

Post-mumps encephalitis cases numbered 63 (64 percent of all cases for this period). This sum is approximately the same as for the preceding 3 months, but the percent of the monthly total is greater. Post-measles encephalitis cases and percent total decreased compared to each of the 4 preceding months. A comparison of the cases attributed to mumps, measles, and other causes is presented by month in the table below.

There were 9 cases of post-chickenpox encephalitis reported; 4 were from California, the remainder from 4 States. The cumulative number of chickenpox cases is 51; thus, its percentage of the national total remains at 8.

Six cases of post-rubella encephalitis were reported, bringing the cumulative count to 31. This figure represents 5 percent of the national total. The case reported from Oregon represents the first in the Pacific region in 1964.

PERCENT DISTRIBUTION OF POST-INFECTIOUS ENCEPHALITIS DUE TO MUMPS, MEASLES, AND OTHER
OTHER CAUSES IN 1964, BY MONTHS*

Month	Mumps		Measles		Other		Total Cases
	Cases	Percent Total	Cases	Percent Total	Cases	Percent Total	
January	26	84	3	10	2	6	31
February	40	77	6	11	6	11	52
March	39	57	19	27	11	16	69
April	68	49	51	36	21	15	140
May	60	50	46	39	13	11	119
June	63	54	26	22	28	24	117
July	63	64	15	15	21	21	99
CUMULATIVE TOTAL	359	57	166	26	102	16	627

*Includes revised and delayed reports.

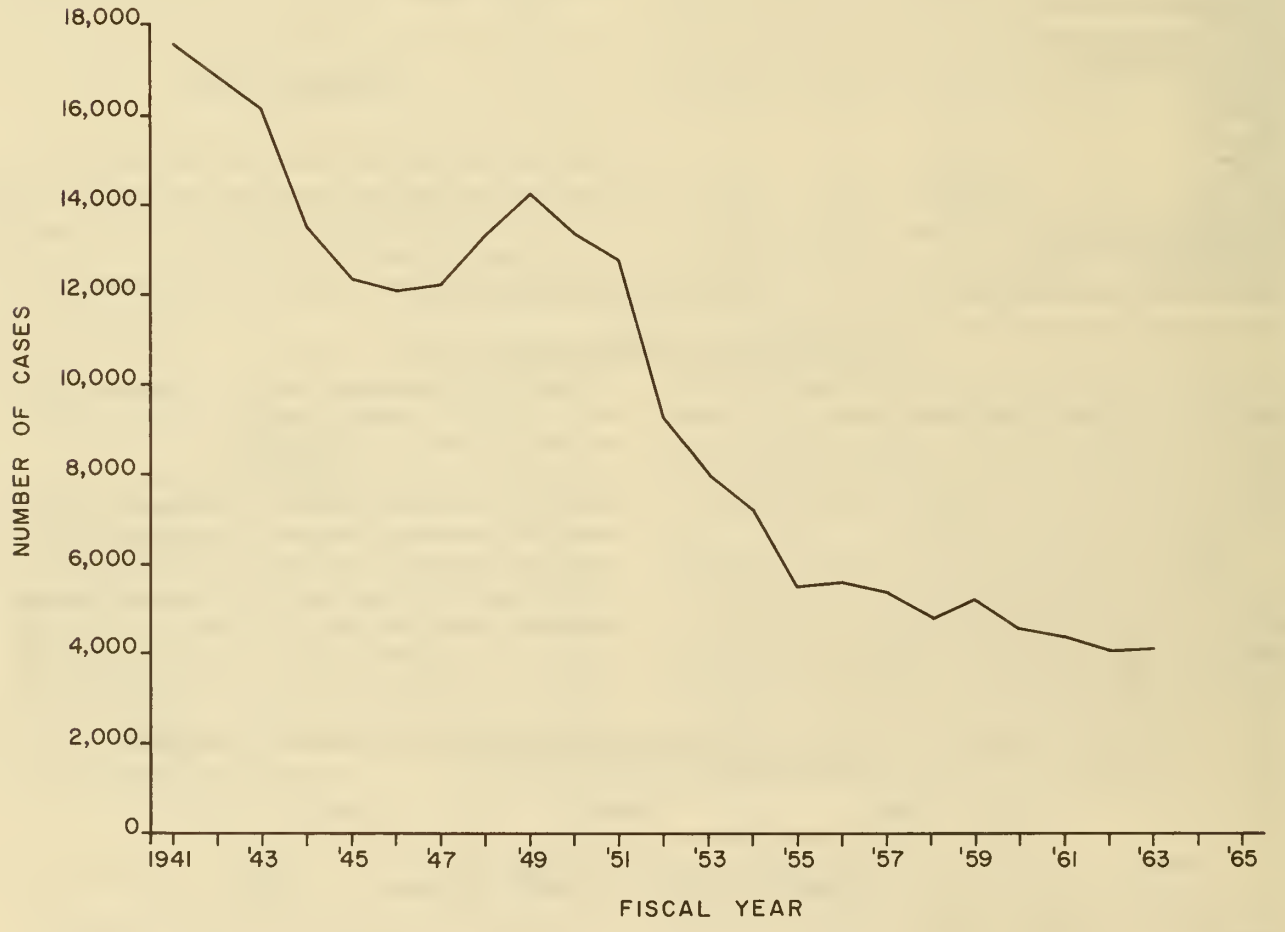
CONGENITAL SYPHILIS

During fiscal year 1963, 4,140 cases of congenital syphilis were reported in the United States. In fiscal year 1962, the total number of cases reported was 4,085.

These 1963 cases represent a 74 percent reduction from the 16,164 cases reported 2 decades ago (fiscal year 1943) and a 48 percent reduction from the 8,021 cases reported one decade ago. In fiscal year 1963, the number of cases among non-whites (2,202) slightly exceeded the number of cases among whites (1,938).

(Reported by the Venereal Disease Branch of the Communicable Disease Center)

REPORTED CASES OF CONGENITAL SYPHILIS, UNITED STATES
EXCLUSIVE OF KNOWN MILITARY CASES



INFECTIOUS SYPHILIS – JULY

A total of 1,999 cases of infectious syphilis was reported for July (see table opposite page). This figure represents an increase of 6 percent over the 1,890 cases reported for July 1963. The cumulative total of 13,220 cases in 1964 is 4 percent above that for the comparable period one year ago.

During the first 7 months, the cumulative totals for all but 2 of the regions have shown an increase over the comparable period of 1963. The largest increase, 15%, occurred in the East North Central region; the south Atlantic States showed a 14 percent rise.

The West South Central and Middle Atlantic regions declined 11 and 7 percent, respectively.

SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS — JULY 1964 JULY 1963

CASES OF PRIMARY AND SECONDARY SYPHILIS: BY REPORTING AREA JULY 1964 AND JULY 1963 - PROVISIONAL DATA

Reporting Area	July		Cumulative Jan-July	
	1964	1963	1964	1963
NEW ENGLAND	33	45	286	260
Maine	3	-	4	3
New Hampshire	-	1	6	5
Vermont	-	1	3	2
Massachusetts	10	37	167	156
Rhode Island	3	-	11	8
Connecticut	17	6	95	86
MIDDLE ATLANTIC	447	462	3,166	3,410
Upstate New York	57	70	394	364
New York City	244	226	1,859	1,896
Pa. (Excl. Phila.)	18	13	81	87
Philadelphia	27	53	194	425
New Jersey	101	100	638	638
EAST NORTH CENTRAL	184	143	1,286	1,118
Ohio	46	31	312	218
Indiana	7	6	37	36
Downstate Illinois	11	8	89	66
Chicago	73	73	508	528
Michigan	43	21	312	235
Wisconsin	4	4	28	35
WEST NORTH CENTRAL	40	28	296	274
Minnesota	5	6	72	46
Iowa	5	-	19	18
Missouri	22	16	134	126
North Dakota	-	-	-	4
South Dakota	4	1	28	18
Nebraska	1	2	24	28
Kansas	3	3	19	34
SOUTH ATLANTIC	650	569	4,021	3,533
Delaware	2	7	45	27
Maryland	54	67	308	326
District of Columbia	48	44	332	406
Virginia	29	25	165	176
West Virginia	1	2	25	26
North Carolina	128	92	653	531
South Carolina	83	95	525	419
Georgia	91	103	722	600
Florida	214	134	1,246	1,022

Reporting Area	July		Cumulative Jan-July	
	1964	1963	1964	1963
EAST SOUTH CENTRAL	214	139	1,009	903
Kentucky	14	19	81	85
Tennessee	42	33	258	234
Alabama	121	64	509	406
Mississippi	37	23	161	178
WEST SOUTH CENTRAL	225	247	1,485	1,663
Arkansas	13	13	118	131
Louisiana	72	48	393	348
Oklahoma	12	11	94	104
Texas	128	175	880	1,080
MOUNTAIN	40	31	313	284
Montana	7	2	23	5
Idaho	-	3	3	4
Wyoming	-	1	7	6
Colorado	2	1	16	23
New Mexico	14	9	128	70
Arizona	15	10	111	126
Utah	2	1	8	12
Nevada	-	4	17	38
PACIFIC	166	226	1,358	1,286
Washington	8	15	43	74
Oregon	2	4	39	32
California	153	204	1,259	1,163
Alaska	1	-	6	3
Hawaii	2	3	11	14
U. S. TOTAL	1,999	1,890	13,220	12,731
TERRITORIES	71	44	486	452
Puerto Rico	63	44	466	441
Virgin Islands	8	-	20	11

Note: Cumulative Totals include revised and delayed reports through previous months.

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
AUGUST 22, 1964 AND AUGUST 24, (34TH WEEK)

Area	Aseptic Meningitis		Encephalitis Primary	Encephalitis Post-Inf.	Poliomyelitis, Total Cases				Poliomyelitis, Paralytic			
							Cumulative				Cumulative	
	1964	1963	1964	1964	1964	1963	1964	1963	1964	1963	1964	1963
UNITED STATES...	63	57	248	8	4	22	70	204	3	19	58	174
NEW ENGLAND.....	2	1	-	-	-	-	1	2	-	-	1	2
Maine.....	-	-	-	-	-	-	-	1	-	-	-	1
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	-	1	-	-	-	-	-	1	-	-	-	1
Rhode Island.....	2	-	-	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	-	-	-	1	-	-	-	1	-
MIDDLE ATLANTIC.....	14	8	11	2	2	14	12	54	1	11	11	41
New York City.....	3	-	3	-	-	-	1	-	-	-	1	-
New York, Up-State.	6	7	5	1	2	-	9	7	1	-	8	5
New Jersey.....	1	-	2	-	-	-	2	1	-	-	2	1
Pennsylvania.....	4	1	1	1	-	14	-	46	-	11	-	35
EAST NORTH CENTRAL...	4	5	7	1	1	1	10	30	1	1	9	22
Ohio.....	2	2	5	-	-	-	2	8	-	-	2	4
Indiana.....	-	-	2	-	1	-	2	2	1	-	2	1
Illinois.....	1	2	-	1	-	-	4	11	-	-	4	10
Michigan.....	1	1	-	-	-	1	1	5	-	1	-	5
Wisconsin.....	-	-	-	-	-	-	1	4	-	-	1	2
WEST NORTH CENTRAL...	3	6	4	-	-	-	3	5	-	-	2	4
Minnesota.....	-	6	-	-	-	-	-	3	-	-	-	3
Iowa.....	-	-	3	-	-	-	-	-	-	-	-	-
Missouri.....	2	-	-	-	-	-	2	-	-	-	1	-
North Dakota.....	-	-	-	-	-	-	-	1	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	-	-	-	-	1	-	-	-	1
Kansas.....	1	-	1	-	-	-	1	-	-	-	1	-
SOUTH ATLANTIC.....	7	7	4	-	1	2	23	28	1	2	18	25
Delaware.....	-	2	-	-	-	-	-	1	-	-	-	1
Maryland.....	-	-	-	-	-	-	1	-	-	-	1	-
Dist. of Columbia..	1	-	-	-	-	-	-	-	-	-	-	-
Virginia.....	-	1	1	-	-	-	-	2	-	-	-	1
West Virginia.....	3	1	-	-	-	-	1	2	-	-	1	2
North Carolina.....	-	-	1	-	-	-	9	3	-	-	5	3
South Carolina.....	-	-	-	-	-	-	2	5	-	-	2	4
Georgia.....	-	-	-	-	-	2	1	8	-	2	1	7
Florida.....	3	3	2	-	1	-	9	7	1	-	8	7
EAST SOUTH CENTRAL...	-	-	-	1	-	5	5	43	-	5	4	41
Kentucky.....	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee.....	-	-	-	1	-	-	3	5	-	-	2	5
Alabama.....	-	-	-	-	-	5	2	35	-	5	2	33
Mississippi.....	-	-	-	-	-	-	-	3	-	-	-	3
WEST SOUTH CENTRAL...	3	4	215	-	-	-	6	21	-	-	6	21
Arkansas.....	-	-	2	-	-	-	-	3	-	-	-	3
Louisiana.....	2	-	1	-	-	-	-	13	-	-	-	13
Oklahoma.....	-	2	-	-	-	-	2	-	-	-	2	-
Texas.....	1	2	212	-	-	-	4	5	-	-	4	5
MOUNTAIN.....	1	2	-	-	-	-	7	2	-	-	4	1
Montana.....	-	-	-	-	-	-	1	-	-	-	1	-
Idaho.....	-	-	-	-	-	-	-	1	-	-	-	1
Wyoming.....	-	-	-	-	-	-	2	-	-	-	2	-
Colorado.....	1	2	-	-	-	-	1	-	-	-	1	-
New Mexico.....	-	-	-	-	-	-	3	1	-	-	-	-
Arizona.....	-	-	-	-	-	-	-	-	-	-	-	-
Utah.....	-	-	-	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	29	24	7	4	-	-	3	19	-	-	3	17
Washington.....	1	-	1	-	-	-	-	2	-	-	-	2
Oregon.....	-	-	-	-	-	-	1	2	-	-	1	1
California.....	28	24	6	4	-	-	2	15	-	-	2	14
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	4	-	-	-	4

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

AUGUST 22, 1964 AND AUGUST 24, 1963 (34TH WEEK) - CONTINUED

Area	Brucellosis		Diphtheria		Infectious Hepatitis including Serum Hepatitis						Typhoid Fever	
		Cum.		Cum.	Total	Under 20 years	20 years and over	Age Unknown	Cumulative			Cum.
	1964	1964	1964	1964	1964	1964	1964	1964	1964	1963	1964	1964
UNITED STATES...	14	285	9	174	641	309	297	35	26,009	29,039	8	263
NEW ENGLAND.....	-	2	1	44	54	28	25	1	2,469	3,107	-	13
Maine.....	-	-	-	39	10	5	5	-	797	1,413	-	-
New Hampshire.....	-	-	-	-	7	2	5	-	184	273	-	-
Vermont.....	-	-	-	-	8	6	1	1	314	51	-	-
Massachusetts.....	-	2	1	5	20	13	7	-	527	887	-	6
Rhode Island.....	-	-	-	-	2	1	1	-	127	72	-	6
Connecticut.....	-	-	-	-	7	1	6	-	520	411	-	1
MIDDLE ATLANTIC.....	-	5	-	7	122	54	68	-	5,819	5,699	-	40
New York City.....	-	-	-	3	23	7	16	-	887	844	-	15
New York, Up-State.	-	2	-	-	57	32	25	-	2,589	2,528	-	9
New Jersey.....	-	-	-	2	15	5	10	-	1,018	852	-	1
Pennsylvania.....	-	3	-	2	27	10	17	-	1,325	1,475	-	15
EAST NORTH CENTRAL...	3	38	-	8	120	63	51	6	4,043	4,742	1	61
Ohio.....	-	2	-	-	26	12	13	1	1,065	1,306	-	23
Indiana.....	-	1	-	1	8	3	5	-	354	430	1	12
Illinois.....	2	24	-	6	29	12	17	-	723	1,021	-	14
Michigan.....	-	5	-	1	51	35	16	-	1,598	1,773	-	9
Wisconsin.....	1	6	-	-	6	1	-	5	303	212	-	3
WEST NORTH CENTRAL...	5	127	2	26	33	17	14	2	1,403	1,318	2	26
Minnesota.....	-	7	-	11	4	-	4	-	147	200	1	3
Iowa.....	3	82	-	-	7	2	3	2	205	241	1	4
Missouri.....	1	9	-	1	8	4	4	-	350	491	-	9
North Dakota.....	-	2	-	2	1	1	-	-	53	43	-	2
South Dakota.....	1	14	-	1	4	3	1	-	116	82	-	1
Nebraska.....	-	11	2	4	-	-	-	-	35	94	-	3
Kansas.....	-	2	-	7	9	7	2	-	497	167	-	4
SOUTH ATLANTIC.....	-	27	6	40	59	25	31	3	2,451	2,960	2	56
Delaware.....	-	-	-	-	2	1	1	-	48	41	-	-
Maryland.....	-	-	-	-	12	8	4	-	460	362	-	3
Dist. of Columbia..	-	-	-	-	1	-	1	-	41	83	-	-
Virginia.....	-	13	-	-	7	1	5	1	381	615	-	10
West Virginia.....	-	-	-	-	2	1	1	-	370	456	-	-
North Carolina.....	-	3	-	-	8	5	3	-	427	756	1	16
South Carolina.....	-	-	-	7	2	-	1	1	92	127	-	10
Georgia.....	-	8	-	20	2	1	1	-	62	121	1	3
Florida.....	-	3	6	13	23	8	14	1	570	399	-	14
EAST SOUTH CENTRAL...	-	14	-	6	32	18	12	2	1,800	2,804	-	25
Kentucky.....	-	4	-	-	10	5	3	2	695	803	-	7
Tennessee.....	-	4	-	1	12	7	5	-	613	1,084	-	11
Alabama.....	-	4	-	3	3	-	3	-	322	443	-	5
Mississippi.....	-	2	-	2	7	6	1	-	170	474	-	2
WEST SOUTH CENTRAL...	3	30	-	27	71	42	27	2	1,981	2,053	3	20
Arkansas.....	1	5	-	-	4	3	1	-	196	230	2	10
Louisiana.....	1	4	-	5	22	12	10	-	461	411	-	3
Oklahoma.....	-	4	-	-	1	1	-	-	100	96	-	4
Texas.....	1	17	-	22	44	26	16	2	1,224	1,316	1	3
MOUNTAIN.....	1	25	-	2	31	8	4	19	1,590	1,864	-	7
Montana.....	-	-	-	-	-	-	-	-	140	240	-	-
Idaho.....	-	-	-	-	12	-	-	12	201	289	-	-
Wyoming.....	-	-	-	-	2	1	1	-	50	25	-	1
Colorado.....	-	-	-	-	6	1	1	4	433	380	-	-
New Mexico.....	-	1	-	1	6	5	1	-	227	219	-	2
Arizona.....	-	2	-	1	3	-	-	3	358	439	-	4
Utah.....	1	21	-	-	2	1	1	-	131	256	-	-
Nevada.....	-	1	-	-	-	-	-	-	50	16	-	-
PACIFIC.....	2	17	-	14	119	54	65	-	4,453	4,492	-	15
Washington.....	-	-	-	13	6	1	5	-	479	770	-	2
Oregon.....	-	2	-	-	8	3	5	-	487	555	-	-
California.....	2	15	-	1	97	43	54	-	3,260	3,024	-	13
Alaska.....	-	-	-	-	7	6	1	-	138	111	-	-
Hawaii.....	-	-	-	-	1	1	-	-	89	32	-	-
Puerto Rico	-	-	-	9	13	10	3	-	587	539	-	9

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
AUGUST 22, 1964 AND AUGUST 24, 1963 (34TH WEEK) - CONTINUED

Area	Measles	Meningococcal Meningitis			Streptococcal Sore Throat and Scarlet Fever		Tetanus		Tularemia		Rabies in Animals	
			Cumulative					Cum.		Cum.		Cum.
	1964	1964	1964	1963	1964	1963	1964	1964	1964	1964	1964	1964
UNITED STATES...	828	27	1,825	1,688	4,147	2,831	12	177	6	223	98	3,062
NEW ENGLAND.....	74	-	50	106	255	163	-	8	-	1	-	28
Maine.....	16	-	5	17	16	5	-	-	-	-	-	24
New Hampshire.....	-	-	1	4	3	-	-	-	-	-	-	1
Vermont.....	11	-	1	4	27	3	-	-	-	-	-	2
Massachusetts.....	22	-	20	50	1	14	-	8	-	1	-	1
Rhode Island.....	2	-	8	9	19	16	-	-	-	-	-	-
Connecticut.....	23	-	15	22	189	125	-	-	-	-	-	-
MIDDLE ATLANTIC.....	54	8	250	234	204	78	1	17	-	-	-	86
New York City.....	20	2	35	35	7	2	-	-	-	-	-	-
New York, Up-State.	22	2	71	74	174	66	1	6	-	-	-	82
New Jersey.....	10	-	84	32	14	7	-	5	-	-	-	-
Pennsylvania.....	2	4	60	93	9	3	-	6	-	-	-	4
EAST NORTH CENTRAL...	160	2	258	263	260	160	2	32	1	17	6	423
Ohio.....	40	-	68	73	15	18	1	9	-	1	-	220
Indiana.....	22	-	40	31	80	24	-	5	-	2	1	21
Illinois.....	11	1	65	51	36	23	1	11	-	10	1	83
Michigan.....	53	1	58	81	63	85	-	6	-	1	2	43
Wisconsin.....	34	-	27	27	66	10	-	1	1	3	2	56
WEST NORTH CENTRAL...	17	1	117	106	139	44	-	9	-	47	27	984
Minnesota.....	1	1	27	21	2	3	-	1	-	2	5	299
Iowa.....	11	-	6	6	22	13	-	3	-	1	11	357
Missouri.....	2	-	55	33	23	3	-	3	-	24	6	151
North Dakota.....	3	-	15	8	76	23	-	-	-	-	1	50
South Dakota.....	-	-	-	5	7	2	-	1	-	12	1	74
Nebraska.....	-	-	6	22	-	-	-	-	-	-	3	31
Kansas.....	NN	-	8	11	9	-	-	1	-	8	-	22
SOUTH ATLANTIC.....	89	8	391	314	412	262	1	51	1	21	16	421
Delaware.....	-	-	6	2	1	13	-	-	-	-	-	-
Maryland.....	1	-	25	49	2	13	-	3	-	-	-	-
Dist. of Columbia..	1	-	12	6	2	1	1	1	-	1	-	-
Virginia.....	9	-	46	72	114	110	-	5	-	4	6	222
West Virginia.....	26	2	29	16	128	54	-	1	-	-	-	25
North Carolina.....	3	1	68	53	14	8	-	13	1	5	-	5
South Carolina.....	21	1	50	15	22	31	-	4	-	-	-	2
Georgia.....	11	2	55	24	35	-	-	3	-	11	4	93
Florida.....	17	2	100	77	94	32	-	21	-	-	6	74
EAST SOUTH CENTRAL...	59	1	156	124	797	621	3	19	-	25	13	369
Kentucky.....	7	-	51	27	67	68	2	5	-	1	2	50
Tennessee.....	45	1	53	54	668	515	1	9	-	17	10	303
Alabama.....	5	-	34	21	40	10	-	4	-	3	1	16
Mississippi.....	2	-	18	22	22	28	-	1	-	4	-	-
WEST SOUTH CENTRAL...	129	4	167	161	466	435	1	18	-	74	23	441
Arkansas.....	1	1	20	11	-	-	1	6	-	41	10	112
Louisiana.....	2	1	110	66	1	1	-	3	-	3	2	35
Oklahoma.....	4	-	7	29	14	35	-	-	-	19	4	75
Texas.....	122	2	30	55	451	399	-	9	-	11	7	219
MOUNTAIN.....	101	-	65	58	956	697	-	5	4	35	1	105
Montana.....	10	-	-	3	16	26	-	-	-	18	-	-
Idaho.....	7	-	3	5	55	42	-	-	-	-	-	-
Wyoming.....	6	-	5	4	19	2	-	2	1	5	-	-
Colorado.....	31	-	11	16	397	308	-	-	-	-	-	8
New Mexico.....	3	-	26	4	333	194	-	1	-	-	-	47
Arizona.....	24	-	5	9	64	49	-	1	-	-	-	46
Utah.....	19	-	7	14	72	76	-	1	3	12	-	1
Nevada.....	1	-	8	3	-	-	-	-	-	-	1	3
PACIFIC.....	145	3	371	322	658	371	4	18	-	3	12	205
Washington.....	2	-	29	25	36	45	-	1	-	-	-	-
Oregon.....	33	-	21	24	4	8	-	-	-	1	1	8
California.....	97	3	302	253	535	273	4	16	-	2	11	197
Alaska.....	4	-	7	12	31	25	-	-	-	-	-	-
Hawaii.....	9	-	12	8	52	20	-	1	-	-	-	-
Puerto Rico	48	-	29	7	11	9	-	50	-	-	1	17

Table 4 (B). REPORTED PNEUMONIA-INFLUENZA DEATHS IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)°

Area	For weeks ending			
	8/1	8/8	8/15	8/22
NEW ENGLAND:				
Boston, Mass.	9	6	10	11
Bridgeport, Conn.	5	1	4	4
Cambridge, Mass.	-	-	-	-
Fall River, Mass.	1	1	1	1
Hartford, Conn.	-	-	-	-
Lowell, Mass.	-	1	2	-
Lynn, Mass.	1	1	-	-
New Bedford, Mass.	-	2	-	2
New Haven, Conn.	1	1	1	1*
Providence, R.I.	2	-	2	2
Somerville, Mass.	1	-	2	1
Springfield, Mass.	4	-	1	5
Waterbury, Conn.	-	-	-	-
Worcester, Mass.	1	3	3	6
MIDDLE ATLANTIC:				
Albany, N.Y.	-	1	-	1
Allentown, Pa.	1	3	2	2
Buffalo, N.Y.	7	6	6	7
Camden, N.J.	1	1	1	1
Elizabeth, N.J.	1	-	-	-
Erie, Pa.	1	1	-	4
Jersey City, N.J.	4	10	1	3
Newark, N.J.	2	4	4	3
New York City, N.Y.	40	42	48	63
Paterson, N.J.	1	1	3	3
Philadelphia, Pa.	19	5	6	11
Pittsburgh, Pa.	7	6	2	4
Reading, Pa.	6	1	3	1
Rochester, N.Y.	10	11	8	9
Schenectady, N.Y.	-	1	1	1
Scranton, Pa.	1	-	1	-
Syracuse, N.Y.	1	3	1	2
Trenton, N.J.	3	4	2	1
Utica, N.Y.	1	2	3	4
Yonkers, N.Y.	3	2	1	2
EAST NORTH CENTRAL:				
Akron, Ohio.	-	-	2	-
Canton, Ohio.	10	2	4	1
Chicago, Ill.	31	29	30	31
Cincinnati, Ohio.	3	5	7	3
Cleveland, Ohio.	5	3	2	3*
Columbus, Ohio.	4	5	-	-
Dayton, Ohio.	1	2	3	1
Detroit, Mich.	22	18	9	17
Evansville, Ind.	3	4	4	1
Flint, Mich.	-	6	2	1
Fort Wayne, Ind.	5	4	-	2
Gary, Ind.	2	2	3	1
Grand Rapids, Mich.	6	4	2	2
Indianapolis, Ind.	4	5	1	1
Madison, Wis.	-	-	-	-
Milwaukee, Wis.	3	4	3	1
Peoria, Ill.	-	2	1	-
Rockford, Ill.	1	4	2	4
South Bend, Ind.	1	6	2	1
Toledo, Ohio.	8	6	3	2
Youngstown, Ohio.	-	1	2	1
WEST NORTH CENTRAL:				
Des Moines, Iowa.	1	2	5	1
Duluth, Minn.	-	-	-	-
Kansas City, Kans.	4	4	2	1
Kansas City, Mo.	-	1	2	3
Lincoln, Nebr.	3	-	4	2
Minneapolis, Minn.	1	1	2	1
Omaha, Nebr.	2	3	1	1
St. Louis, Mo.	4	8	13	2
St. Paul, Minn.	3	3	3	2
Wichita, Kans.	3	3	5	8

Area	For weeks ending			
	8/1	8/8	8/15	8/22
SOUTH ATLANTIC:				
Atlanta, Ga.	2	-	5	1
Baltimore, Md.	7	7	3	5
Charlotte, N.C.	1	3	2	-
Jacksonville, Fla.	3	-	1	-
Miami, Fla.	1	-	-	-
Norfolk, Va.	5	6	2	1
Richmond, Va.	4	3	1	1
Savannah, Ga.	2	2	2	4
St. Petersburg, Fla.	1	3	7	6
Tampa, Fla.	4	12	8	6
Washington, D.C.	9	6	7	11
Wilmington, Del.	1	1	-	1
EAST SOUTH CENTRAL:				
Birmingham, Ala.	-	1	1	1
Chattanooga, Tenn.	1	4	3	3
Knoxville, Tenn.	-	-	3	1
Louisville, Ky.	10	12	10	8*
Memphis, Tenn.	4	8	2	4
Mobile, Ala.	-	1	-	2
Montgomery, Ala.	-	3	2	2
Nashville, Tenn.	2	3	2	3
WEST SOUTH CENTRAL:				
Austin, Tex.	1	2	7	3
Baton Rouge, La.	-	2	1	-
Corpus Christi, Tex.	1	1	1	1
Dallas, Tex.	4	6	4	2
El Paso, Tex.	-	3	-	3
Fort Worth, Tex.	2	1	3	1
Houston, Tex.	10	1	4	6
Little Rock, Ark.	4	4	2	3
New Orleans, La.	12	8	3	8
Oklahoma City, Okla.	-	5	2	1
San Antonio, Tex.	8	4	3	4
Shreveport, La.	3	4	4	4
Tulsa, Okla.	2	2	4	5
MOUNTAIN:				
Albuquerque, N. Mex.	2	-	3	1
Colorado Springs, Colo.	-	2	2	1
Denver, Colo.	5	6	3	4
Ogden, Utah.	1	3	3	1
Phoenix, Ariz.	4	2	6	1
Pueblo, Colo.	1	-	2	1
Salt Lake City, Utah.	1	-	-	1
Tucson, Ariz.	2	-	2	2
PACIFIC:				
Berkeley, Calif.	-	-	-	-
Fresno, Calif.	-	3	2	-
Glendale, Calif.	-	-	-	-
Honolulu, Hawaii.	-	-	-	-
Long Beach, Calif.	1	-	1	-
Los Angeles, Calif.	20	20	29	15
Oakland, Calif.	4	1	1	-
Pasadena, Calif.	-	-	-	-
Portland, Oreg.	2	-	2	-
Sacramento, Calif.	4	1	4	2
San Diego, Calif.	1	-	3	2
San Francisco, Calif.	-	2	4	2
San Jose, Calif.	1	1	1	1
Seattle, Wash.	2	1	2	2
Spokane, Wash.	-	-	-	-
Tacoma, Wash.	-	-	1	-

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

°Current Week Mortality for 108 Selected Cities

4(A) Total Mortality, all ages	10,504
4(B) Pneumonia-Influenza Deaths, all ages	365
4(C) Total Deaths under 1 Year of Age	684
4(D) Total Deaths, Persons 65 years and over	5,705

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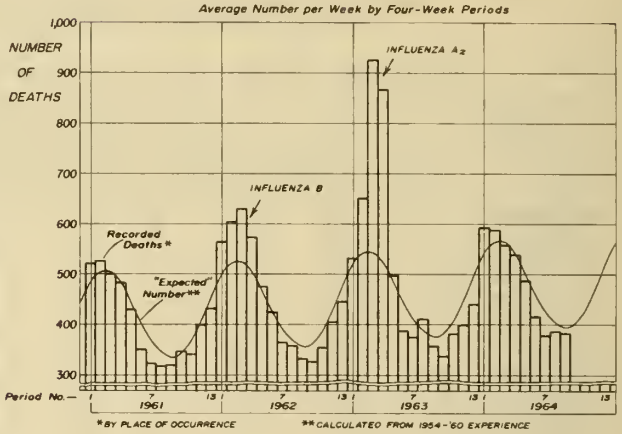
SUMMARY OF PNEUMONIA AND INFLUENZA DEATHS

The weekly average number of pneumonia-influenza deaths for the four-week period ending August 22 was 385 as compared with an expected weekly average of 396.

Summary of Pneumonia and Influenza Deaths

	Week Ending				4 Week Total	Weekly Average
	8/1	8/8	8/15	8/22		
Observed	398	398	380	365	1,541	385
Expected	397	395	395	396	1,583	396
Excess	1	3	−15	−31	−42	−11

PNEUMONIA-INFLUENZA DEATHS in 108 U.S. CITIES
Average Number per Week by Four-Week Periods



(See table, page 299)

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LAWRENCE K. ALTMAN, M.D., EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTES: THESE PROVISIONAL DATA ARE BASED ON WEEKLY TELEGRAMS TO THE COMMUNICABLE DISEASE CENTER BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS.

SYMBOLS: - - - DATA NOT AVAILABLE
- QUANTITY ZERO

PROCEDURES FOR CONSTRUCTION OF VARIOUS MORTALITY CURVES MAY BE OBTAINED FROM STATISTICS SECTION, COMMUNICABLE DISEASE CENTER, PUBLIC HEALTH SERVICE, U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, ATLANTA, GEORGIA 30333.

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